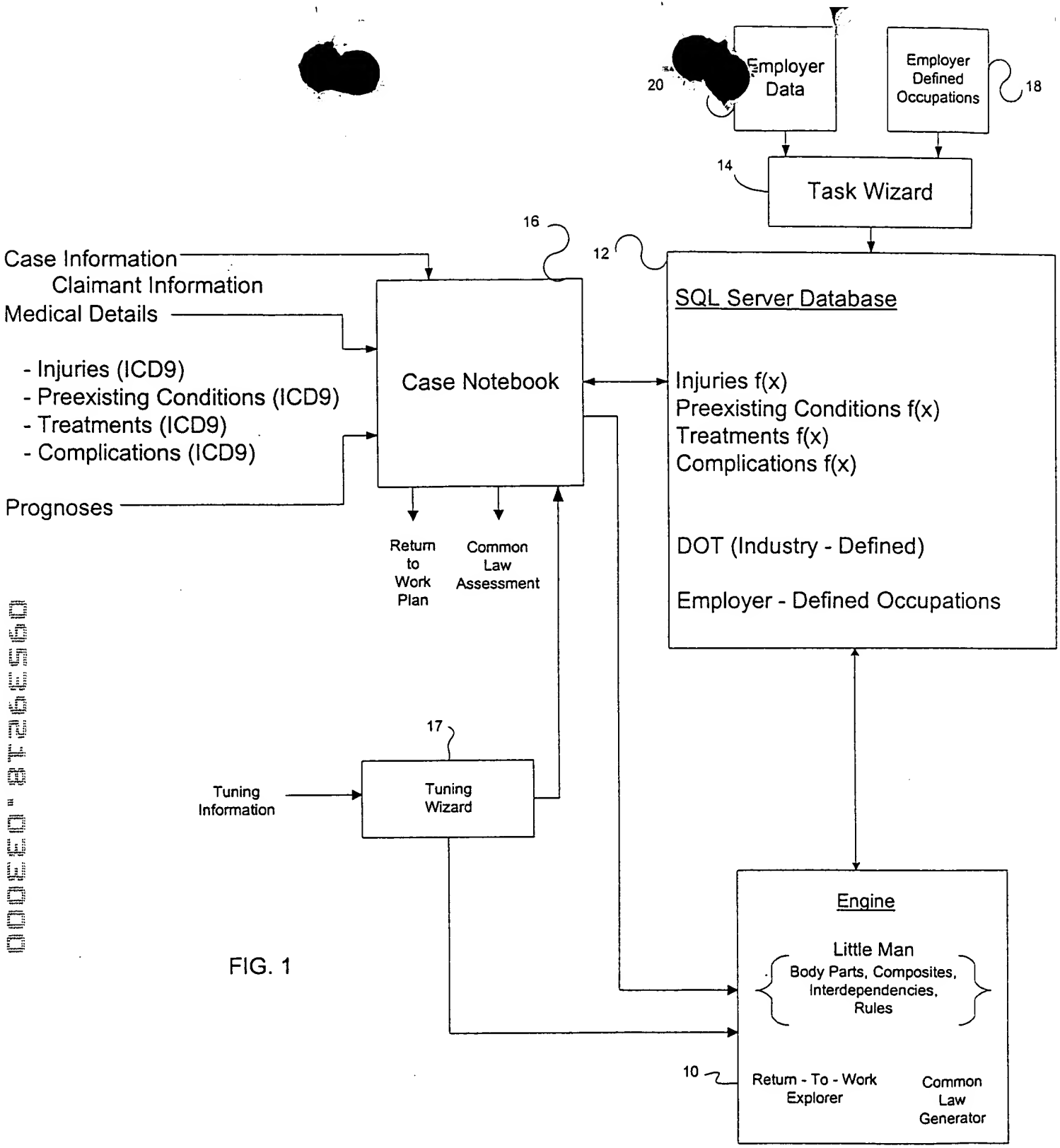

FIG. 1

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Internal Classes

1. Body Part
2. - Composite Body Part
3. - sight
4. - hearing
5. - soft Tissue Spine
6. - Whole Body Dysfunction
7. - Whole Body Trauma
8. Case Occupation
9. Case Activity
10. - DOT Case Activity
11. - DOT Case Occupation
12. Case Task
13. Conjunction
14. - Sided Conjunction
15. ICD9 Effects
16. ICD9 Profile
17. Prognosis
18. - Permanent Condition
19. - Occupation Incapacity
20. - Activity Incapacity
21. - Progress
22. - Psyche
23. - Temp. Codes

FIG. 2A

External Classes

17. Action Plan
18. Actual Return to Work Occupation
19. Actual Return to Work Task
20. Activity Capacity
21. Additional Jobs
22. Case Activity
23. Case Details
24. Case Task
25. CLA Criteria
26. CLA Plan
27. Claimant Occupation
28. Client
29. Client Address
30. Client Address Relation
31. DOT Codes
32. DOT Return To Work Plan
33. Future Economic
34. Future Treatment/Complication
35. Insured Template
36. Job
37. Job Activities
38. Job Tasks
39. Medical Codes
40. Medical Details
41. Medical Code Body Parts
42. Medical Code Profiles
43. Medical Symptoms
44. Permanent condition
45. Preamble
46. Prognosis Details
47. Recovery Progress
48. Return To Work Plan Criteria
49. Salary

FIG. 2B

FIGURE 3

COMPOSITE BODY PARTS

thoracic	l ankle foot	face	cervical spine
lumbar	l leg	trunk	digestive
lumbosacral	sacral area	lower trunk	hematopoietic
thoracolumbar	r hand	upper trunk	reproductive
spine	l hand	station gait	respiratory
r foot	r wrist hand	use uppers	smell
r fore foot	l wrist hand	communication	speech
r ankle foot	r arm	infirmity	taste
r leg	l arm	head	whole body dysfunction
l foot	r eye	brain	whole body trauma
1 fore foot	l eye	cardiovascular	

HEARING

hearing

SIGHT

sight

SOFT TISSUE SPINE

cervical
thoracic
lumbosacral
sacral

0053571.0003

ICD9 Code: 805.4.4
Instance: L4 Vertebra
Class: Body Part
Intermediate Code: tfrac (a bony injury)
Profile:

Day	Dysfunction Level (%)
0	100
14	100
28	50
42	20
56	10
70	0

FIG. 4

Day	Dysfunction Level (%)
0	100
16.80	100
33.60	50
50.40	20
67.20	10
84	0

FIG. 5

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Day	Dysfunction Level (%)
0	100
23.52	100
47.04	50
70.56	20
94.08	10
117.60	0

FIG. 6

Day (original)	Day (Age/Sex)	Day (Age)	Dysfunction Level (%)
0	0	0	100
35	42	58.80	100
42	50.40	70.56	80
49	58.80	82.32	70
56	67.20	94.08	65
63	75.60	105.84	60
70	84.00	117.60	55
77	92.40	129.36	50
84	100.80	141.12	45
91	109.20	152.88	40
98	117.60	164.64	35
105	126.00	176.40	30
112	134.40	188.16	25
126	176.40	246.96	20
140	168.00	235.20	15

FIG. 7

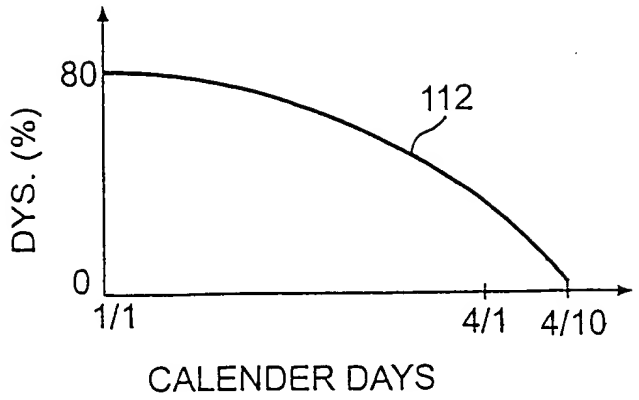

FIG. 8

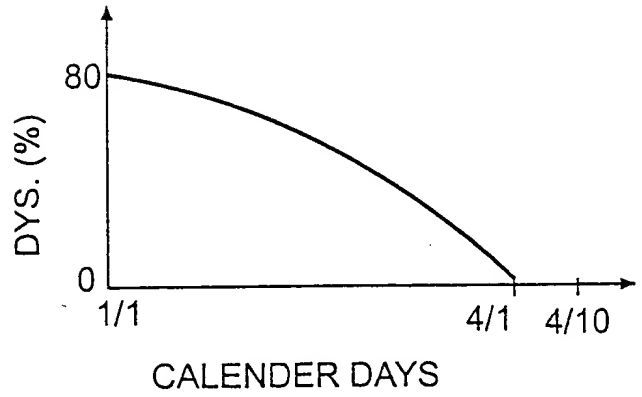

FIG. 9

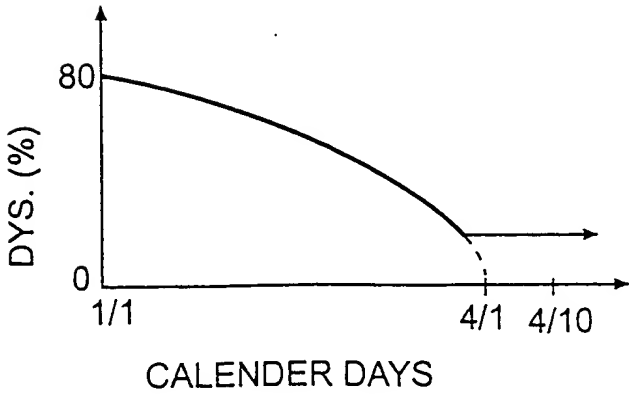

FIG. 10

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PUSH/PULL ACTIVITIES			
PROGNOSIS	UP TO 50 POUNDS MODERATE PUSHING	UP TO 100 POUNDS HEAVY PUSHING	OVER 100 POUNDS VERY HEAVY PUSHING
1. CAN DO NOW	1, 2, 2	1, 1, 2	1, 1, 1
2. CAN DO INFREQUENTLY	2, 3, 3	1, 2, 3	1, 1, 2
3. AVOID AT PRESENT	3, 3, 3	2, 3, 3	1, 2, 3
4. CAN ONLY EVER DO INFREQUENTLY	4, 5, 5	1, 4, 5	1, 2, 4
5. AVOID PERMANENTLY	5, 5, 5	2, 5, 5	1, 4, 5

FIG. 11

LIFTING ACTIVITIES					
PROGNOSIS	SMALL/LIGHT SEDENTARY	UP TO 50 LIGHT	UP TO 50 MODERATE	UP TO 100 HEAVY	OVER 100 VERY HEAVY
1. CAN DO NOW	1, 2, 2, 2, 2	1, 1, 2, 2, 2	1, 1, 1, 2, 2	1, 1, 1, 1, 2	1, 1, 1, 1, 1
2. CAN DO INFREQUENTLY	2, 3, 3, 3, 3	1, 2, 3, 3, 3	1, 1, 2, 3, 3	1, 1, 1, 2, 3	1, 1, 1, 1, 2
3. AVOID AT PRESENT	3, 3, 3, 3, 3	1, 1, 3, 3, 3	1, 1, 3, 3, 3	1, 1, 2, 3, 3	1, 1, 1, 2, 3
4. CAN ONLY EVER DO INFREQUENTLY	4, 5, 5, 5, 5	1, 4, 5, 5, 5	1, 1, 4, 5, 5	1, 1, 1, 4, 5	1, 1, 1, 2, 4
5. AVOID PERMANENTLY	5, 5, 5, 5, 5	1, 5, 5, 5, 5	1, 2, 5, 5, 5	1, 1, 2, 5, 5	1, 1, 1, 4, 5

FIG. 12

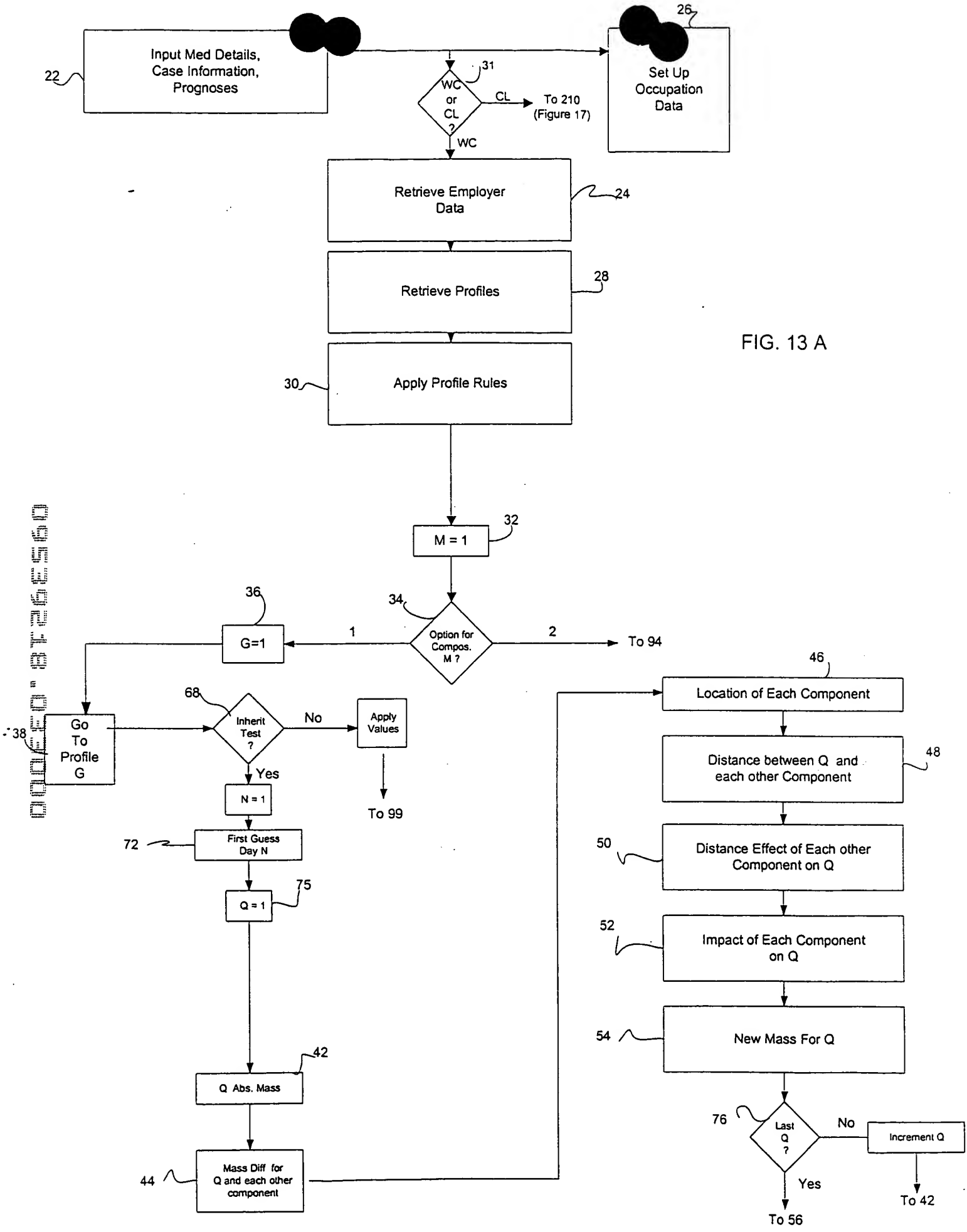
Input Med Details, Case Information, Prognoses
22
Set Up Occupation Data
26
WC or CL ?
31
CL
To 210 (Figure 17)
WC
Retrieve Employer Data
24
Retrieve Profiles
28
Apply Profile Rules
30
M = 1
32
Option for Compos. M ?
34
1
2
To 94
G=1
36
Go To Profile G
38
Inherit Test ?
68
No
Apply Values
To 99
Yes
N = 1
First Guess Day N
72
Q = 1
75
Q Abs. Mass
42
Mass Diff for Q and each other component
44
Location of Each Component
46
Distance between Q and each other Component
48
Distance Effect of Each other Component on Q
50
Impact of Each Component on Q
52
New Mass For Q
54
Last Q ?
76
No
Increment Q
To 42
Yes
To 56

FIG. 13 A

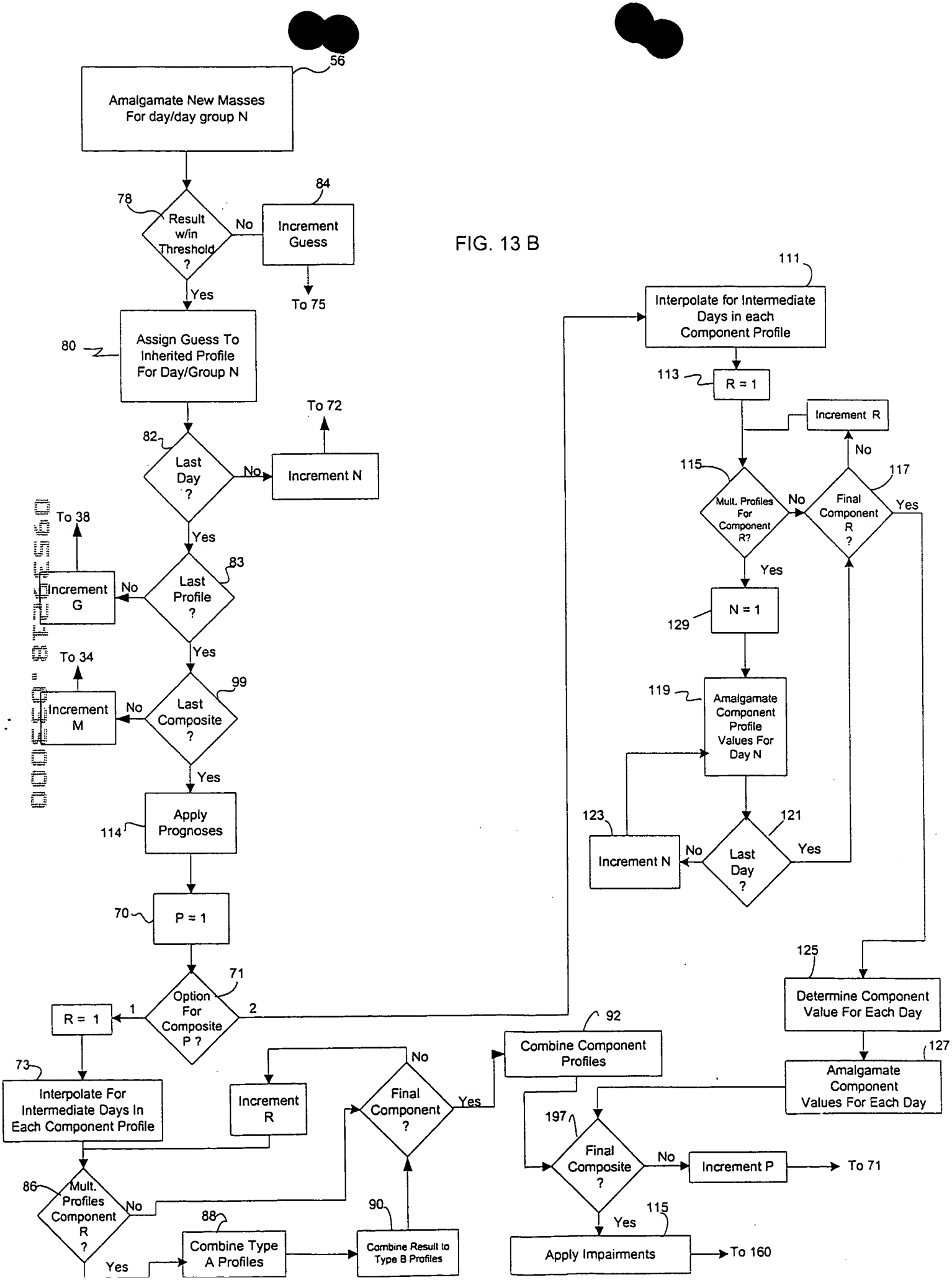
56
Amalgamate New Masses For day/day group N
78
Result w/in Threshold ?
No
84
Increment Guess
To 75
Yes
80
Assign Guess To Inherited Profile For Day/Group N
To 72
82
Last Day ?
No
Increment N
Yes
To 38
Increment G
No
83
Last Profile ?
Yes
To 34
Increment M
No
99
Last Composite ?
Yes
114
Apply Prognoses
70
P = 1
71
Option For Composite P ?
1
2
R = 1
73
Interpolate For Intermediate Days In Each Component Profile
Increment R
No
Final Component ?
Yes
86
Mult. Profiles Component R ?
No
Yes
88
Combine Type A Profiles
90
Combine Result to Type B Profiles
92
Combine Component Profiles
197
Final Composite ?
No
Increment P
To 71
Yes
115
Apply Impairments
To 160
111
Interpolate for Intermediate Days in each Component Profile
113
R = 1
Increment R
No
115
Mult. Profiles For Component R?
No
117
Final Component R ?
Yes
Yes
129
N = 1
119
Amalgamate Component Profile Values For Day N
123
Increment N
No
121
Last Day ?
Yes
125
Determine Component Value For Each Day
127
Amalgamate Component Values For Each Day

FIG. 13 B

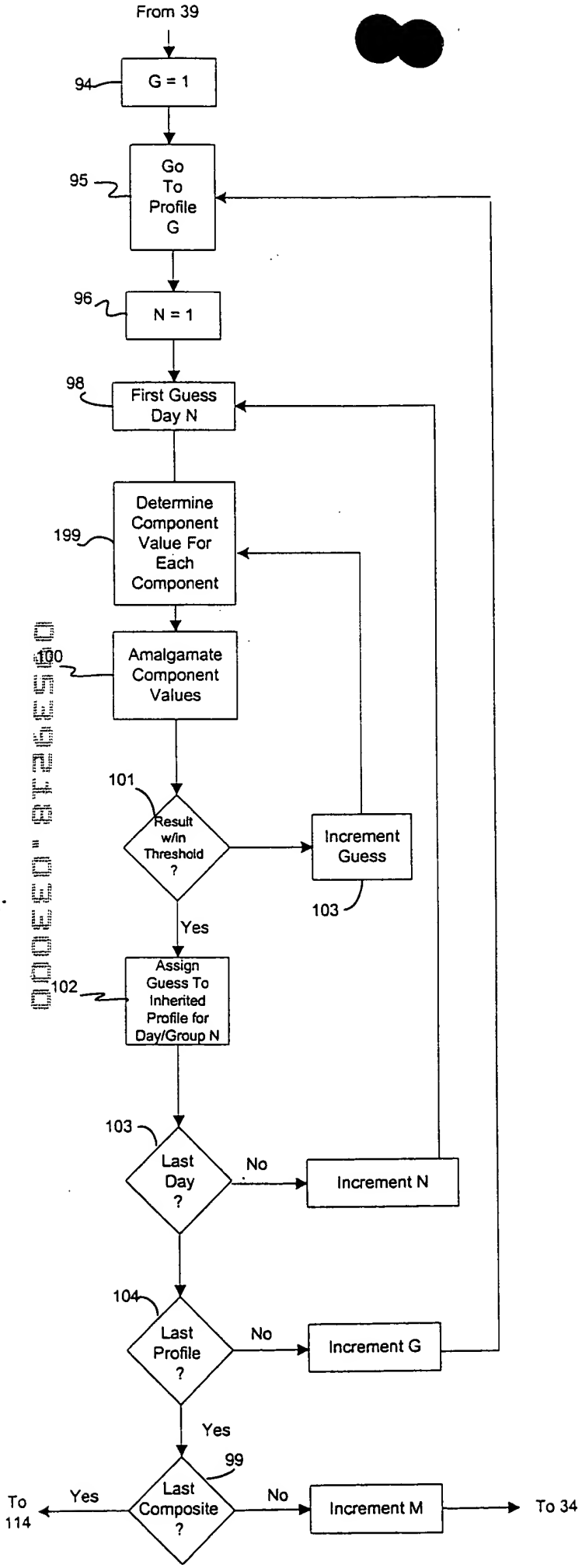
From 39
94
G = 1
95
Go To Profile G
96
N = 1
98
First Guess Day N
199
Determine Component Value For Each Component
100
Amalgamate Component Values
101
Result w/in Threshold ?
Increment Guess
103
Yes
102
Assign Guess To Inherited Profile for Day/Group N
103
Last Day ?
No
Increment N
104
Last Profile ?
No
Increment G
Yes
99
Last Composite ?
Yes
To 114
No
Increment M
To 34

FIG. 13 C

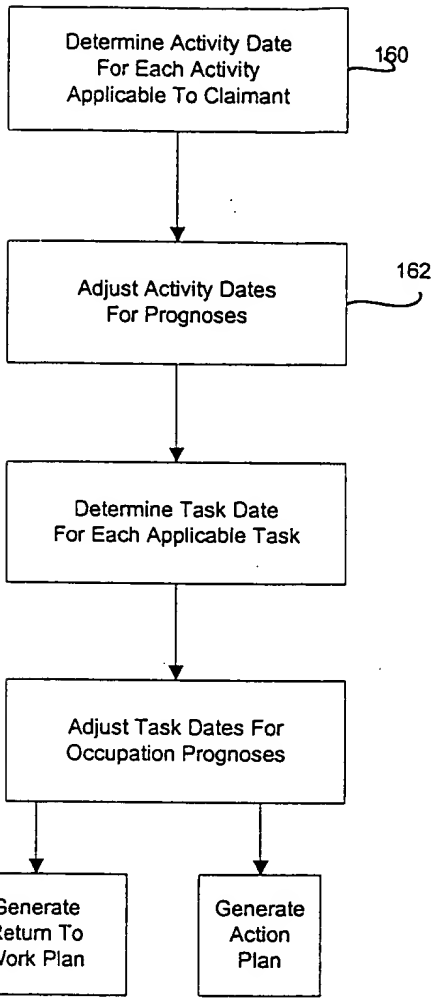
Determine Activity Date For Each Activity Applicable To Claimant
160
Adjust Activity Dates For Prognoses
162
Determine Task Date For Each Applicable Task
Adjust Task Dates For Occupation Prognoses
Generate Return To Work Plan
Generate Action Plan

FIG. 13 D

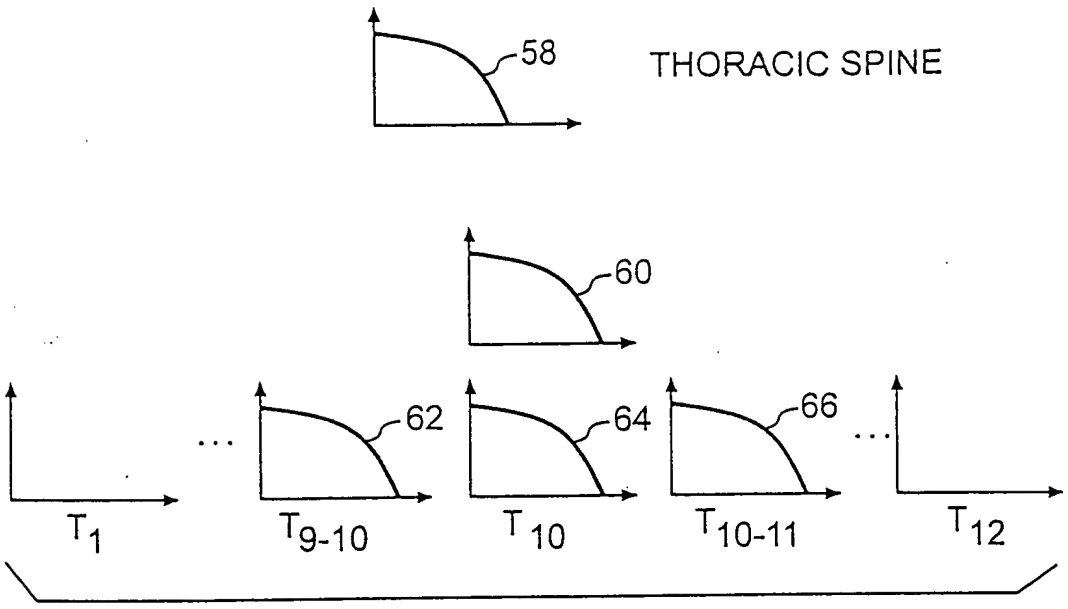

FIG. 14

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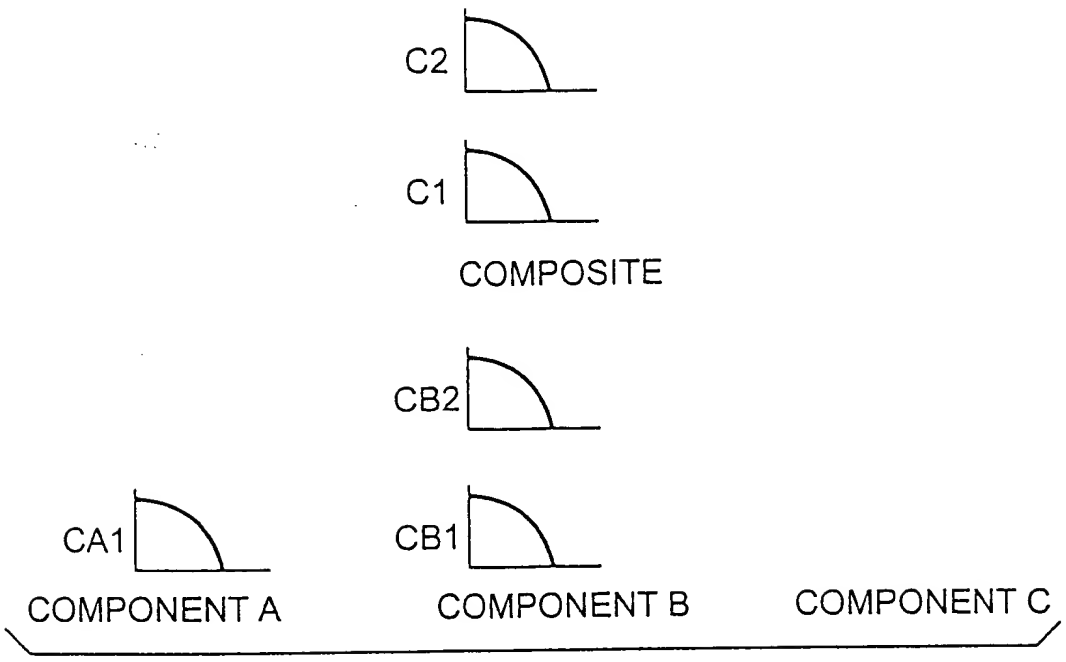

FIG. 15A

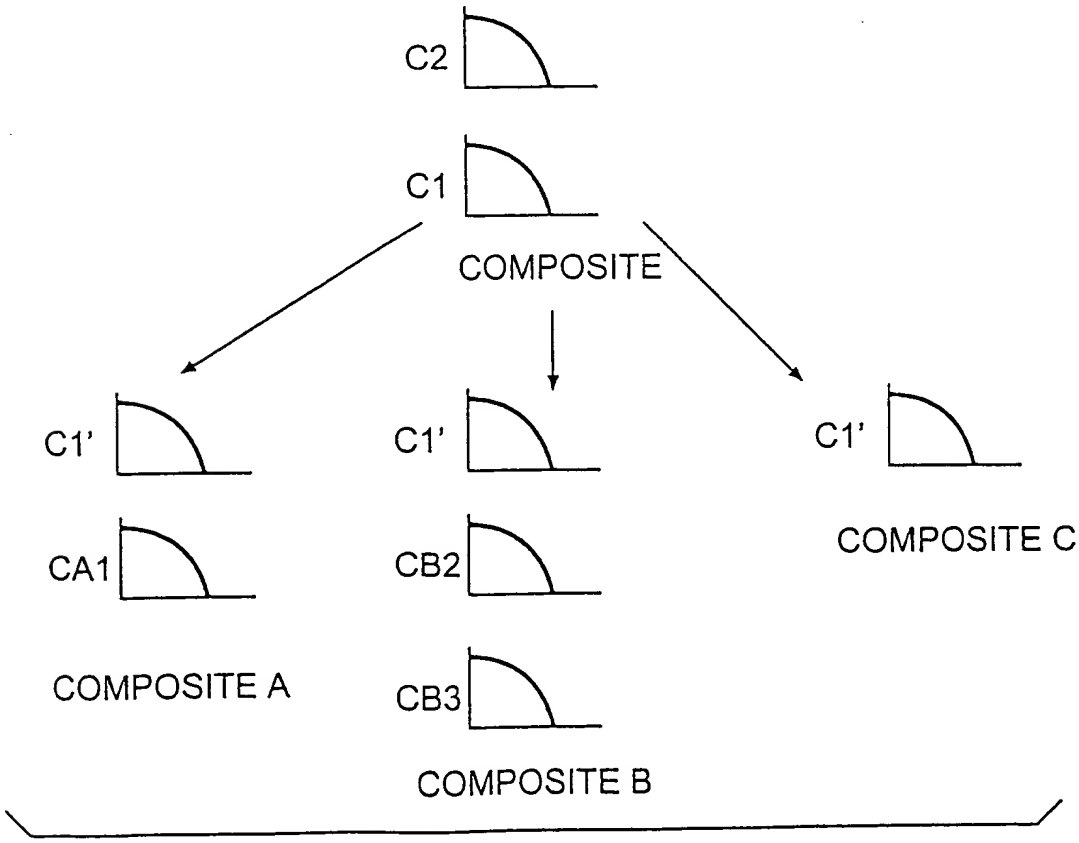

FIG. 15B

0003-6750-9350

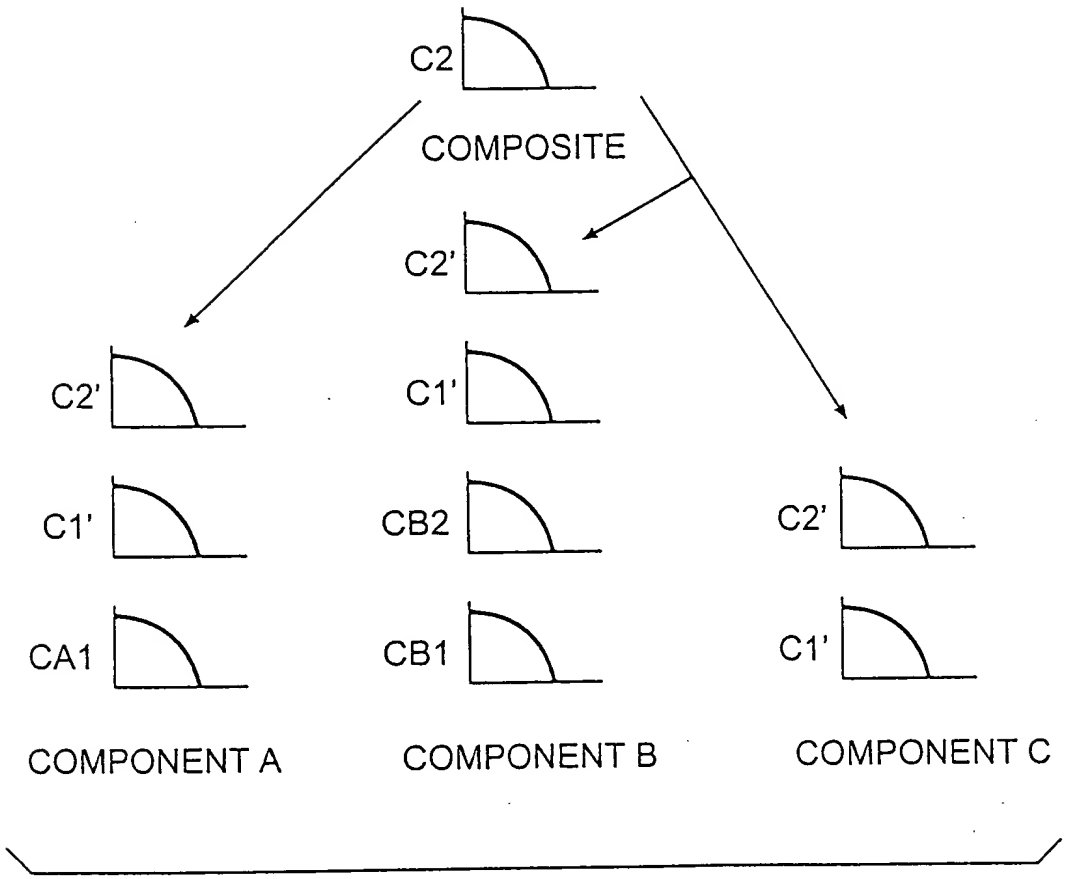

FIG. 15C

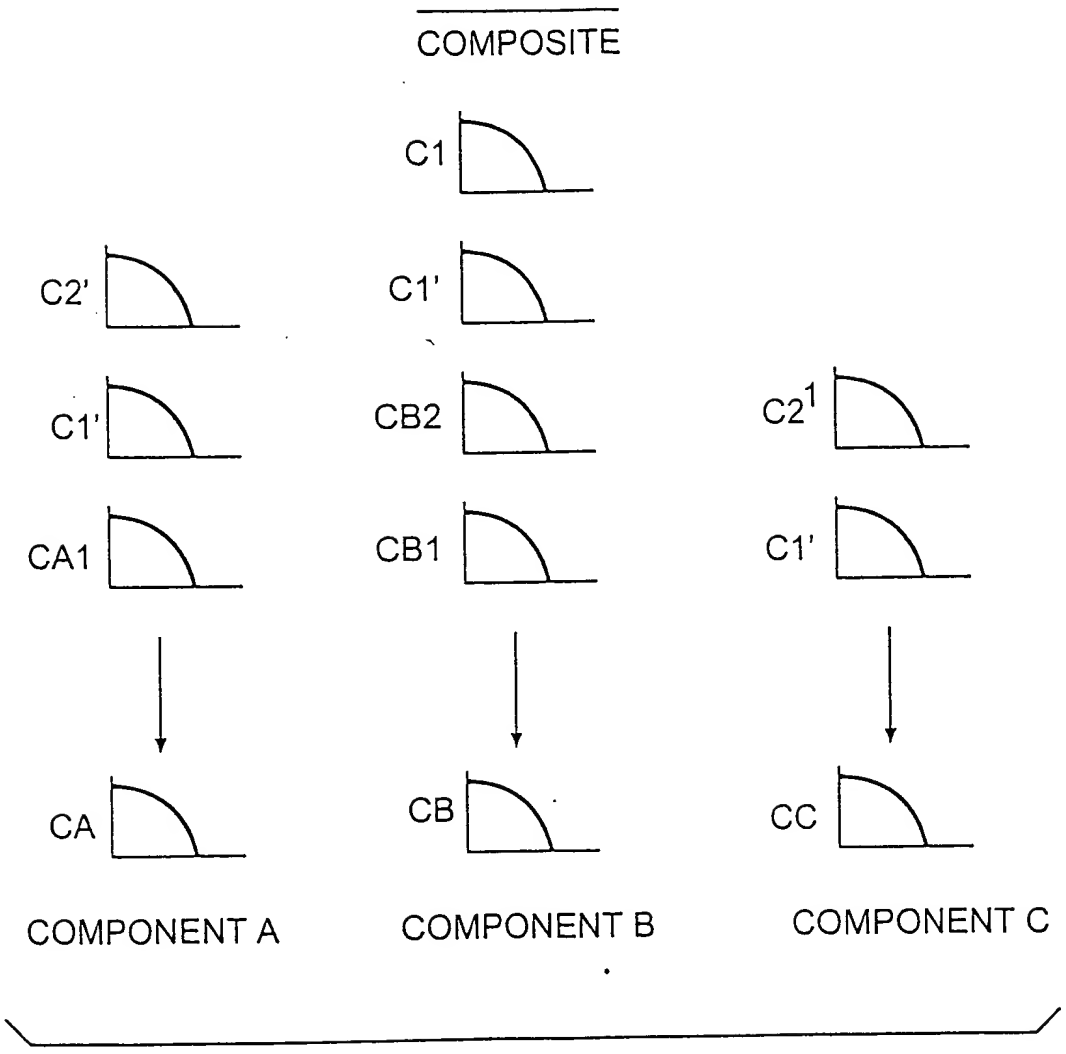
COMPOSITE
C1
C2'
C1'
C1'
CB2
C2¹
CA1
CB1
C1'
CA
CB
CC
COMPONENT A
COMPONENT B
COMPONENT C

FIG. 15D

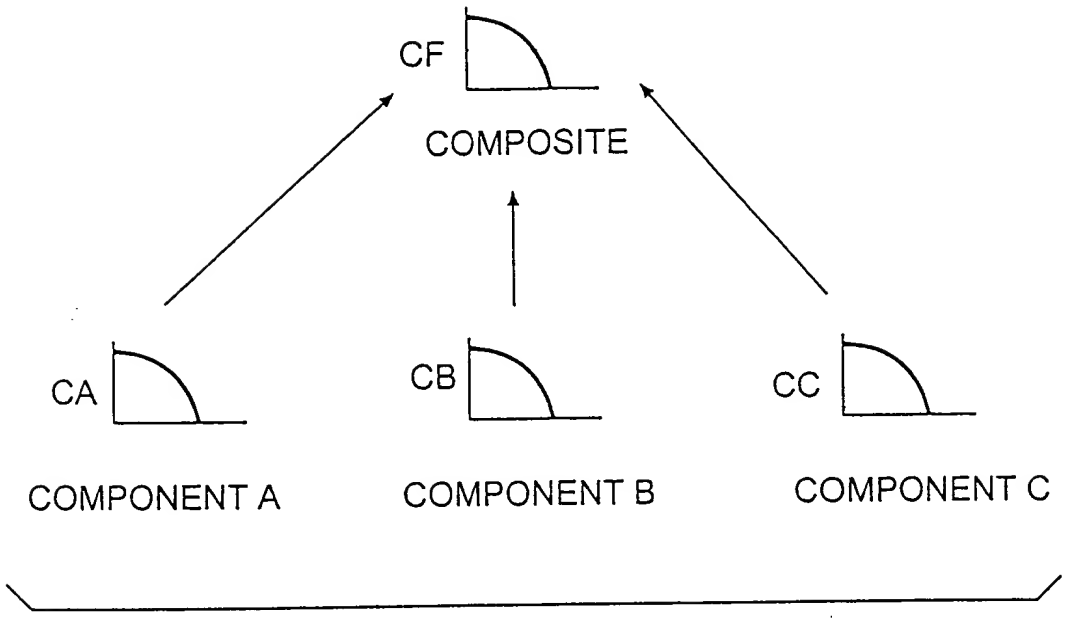

FIG. 15E

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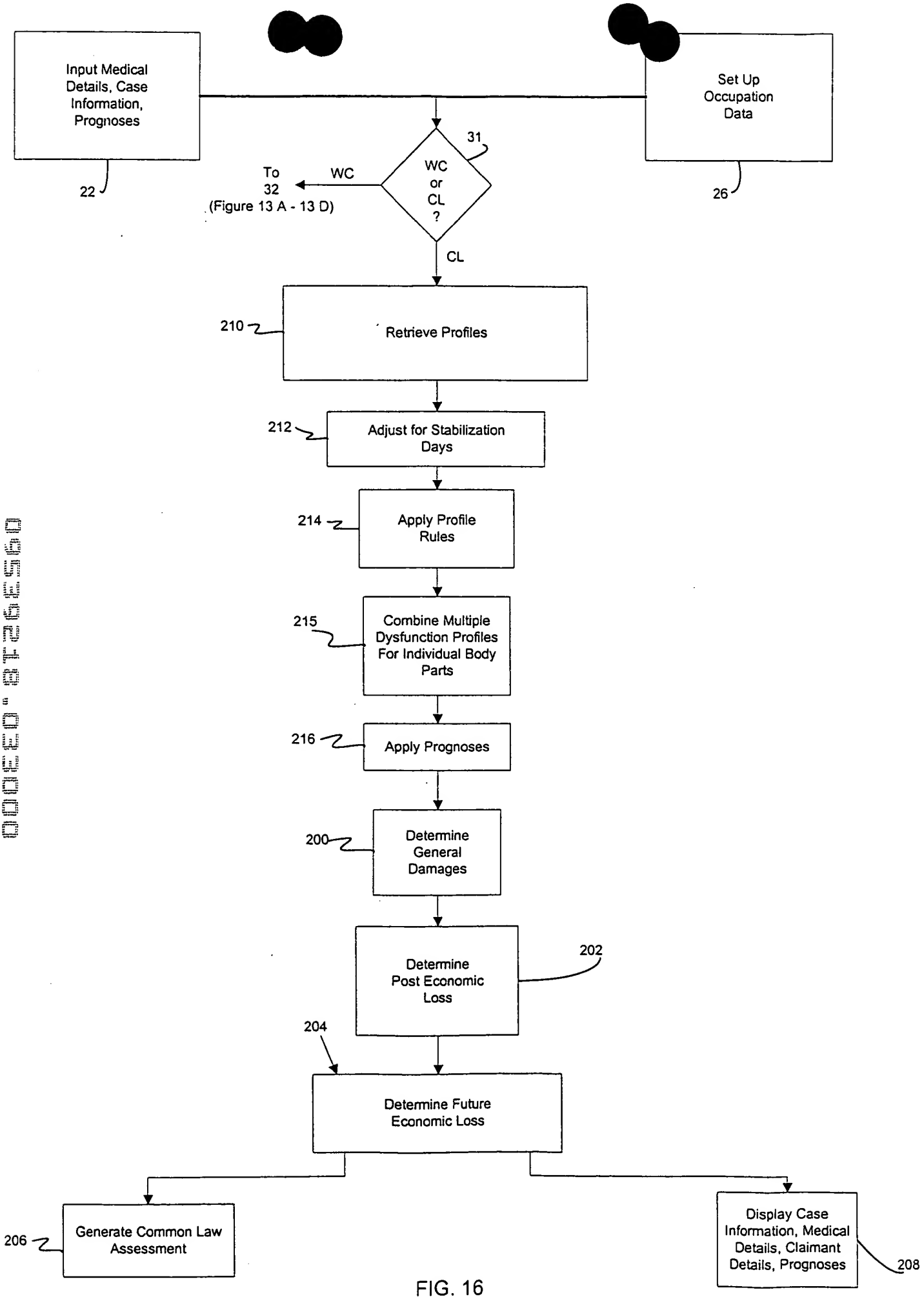
Input Medical Details, Case Information, Prognoses
22
Set Up Occupation Data
26
31
WC or CL ?
WC
To 32 (Figure 13 A - 13 D)
CL
210
Retrieve Profiles
212
Adjust for Stabilization Days
214
Apply Profile Rules
215
Combine Multiple Dysfunction Profiles For Individual Body Parts
216
Apply Prognoses
200
Determine General Damages
202
Determine Post Economic Loss
204
Determine Future Economic Loss
206
Generate Common Law Assessment
208
Display Case Information, Medical Details, Claimant Details, Prognoses

FIG. 16

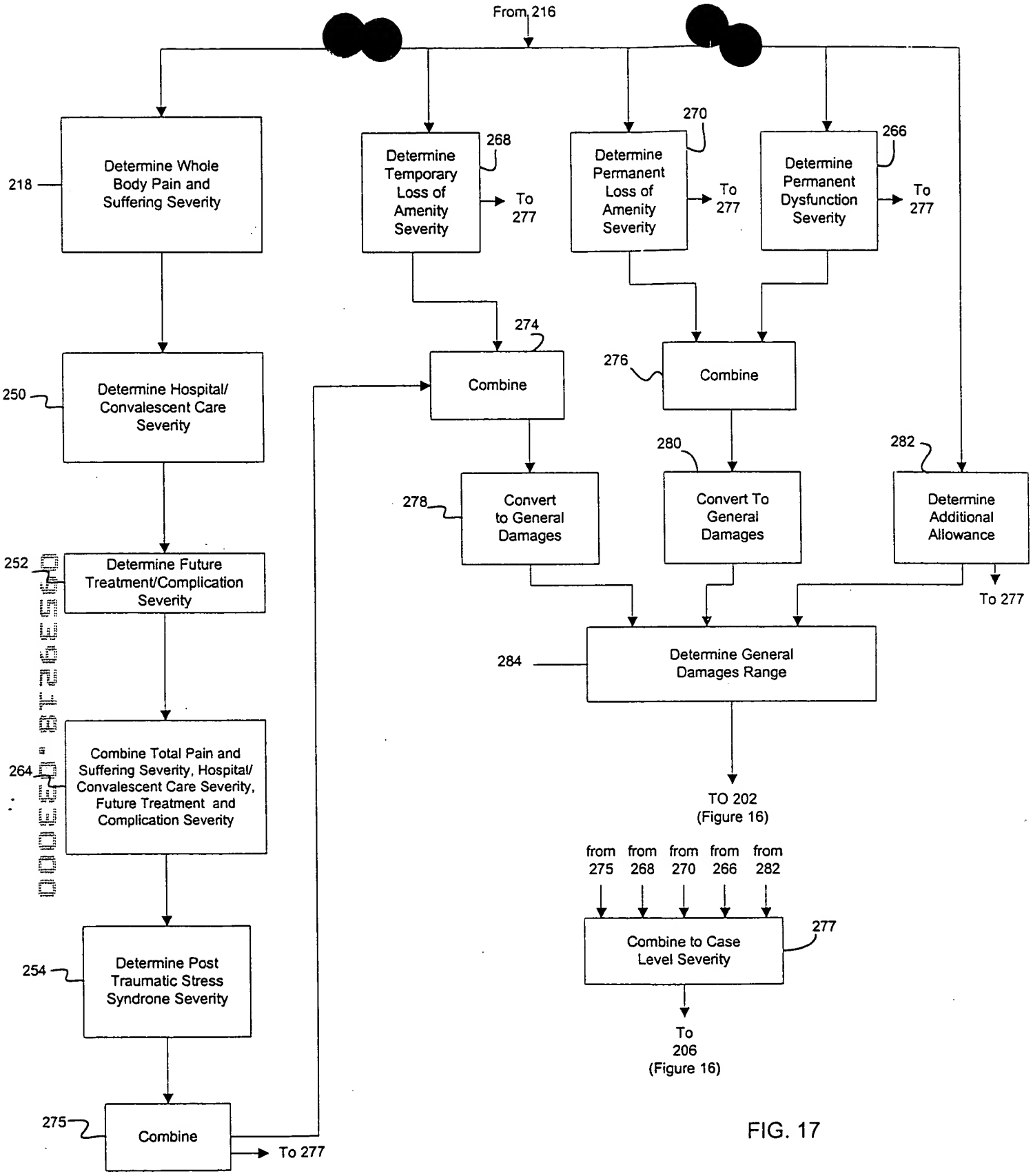
From 216
Determine Whole Body Pain and Suffering Severity
218
Determine Temporary Loss of Amenity Severity
268
To 277
Determine Permanent Loss of Amenity Severity
270
To 277
Determine Permanent Dysfunction Severity
266
To 277
Determine Hospital/ Convalescent Care Severity
250
Combine
274
Combine
276
Convert to General Damages
278
Convert To General Damages
280
Determine Additional Allowance
282
To 277
Determine Future Treatment/Complication Severity
252
Combine Total Pain and Suffering Severity, Hospital/ Convalescent Care Severity, Future Treatment and Complication Severity
264
Determine Post Traumatic Stress Syndrone Severity
254
Combine
275
To 277
Determine General Damages Range
284
TO 202
(Figure 16)
from 275
from 268
from 270
from 266
from 282
Combine to Case Level Severity
277
To 206
(Figure 16)

FIG. 17

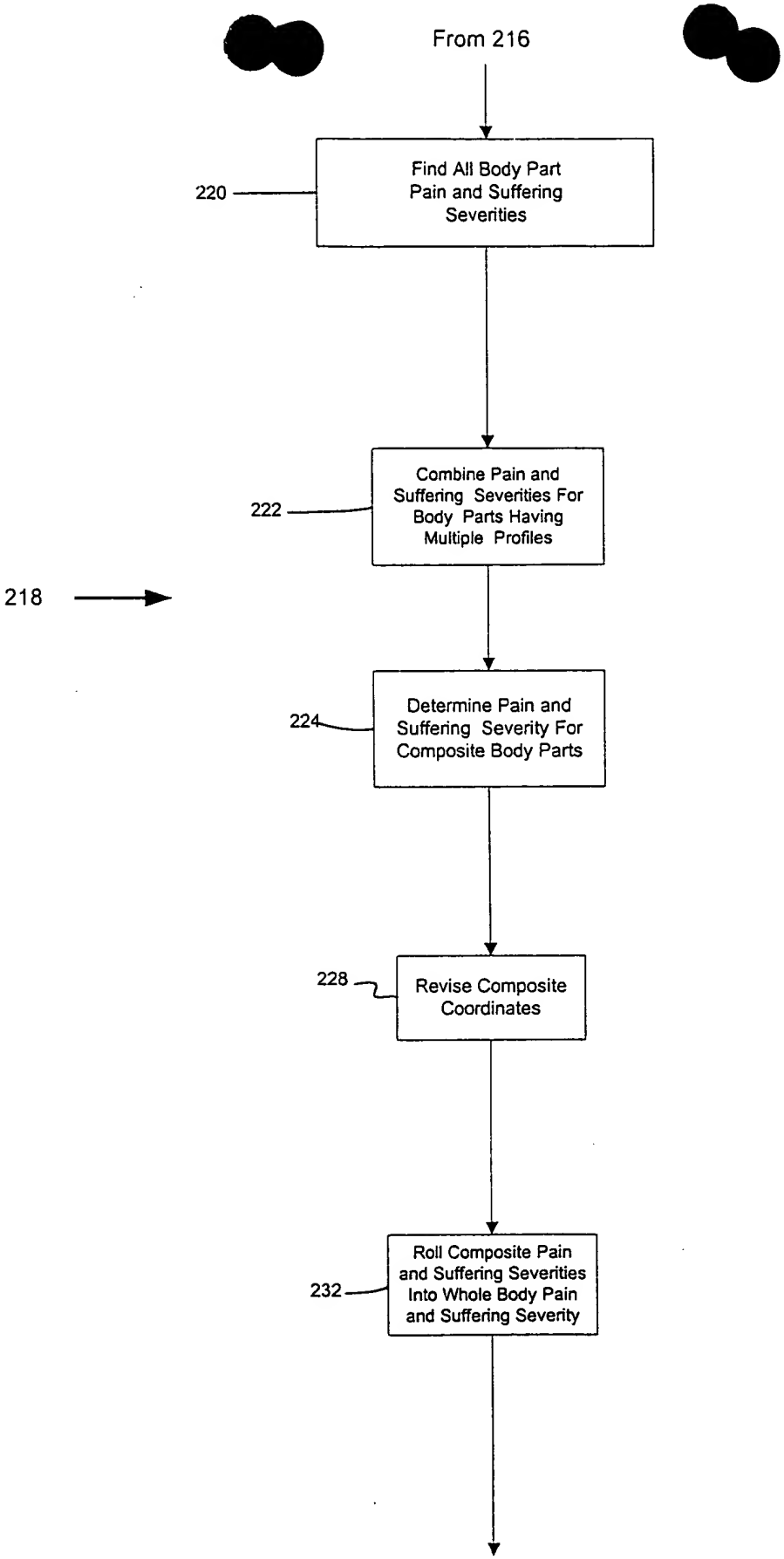
From 216
220
Find All Body Part Pain and Suffering Severities
222
Combine Pain and Suffering Severities For Body Parts Having Multiple Profiles
218
224
Determine Pain and Suffering Severity For Composite Body Parts
228
Revise Composite Coordinates
232
Roll Composite Pain and Suffering Severities Into Whole Body Pain and Suffering Severity
To 250
(Figure 17)

FIG. 18

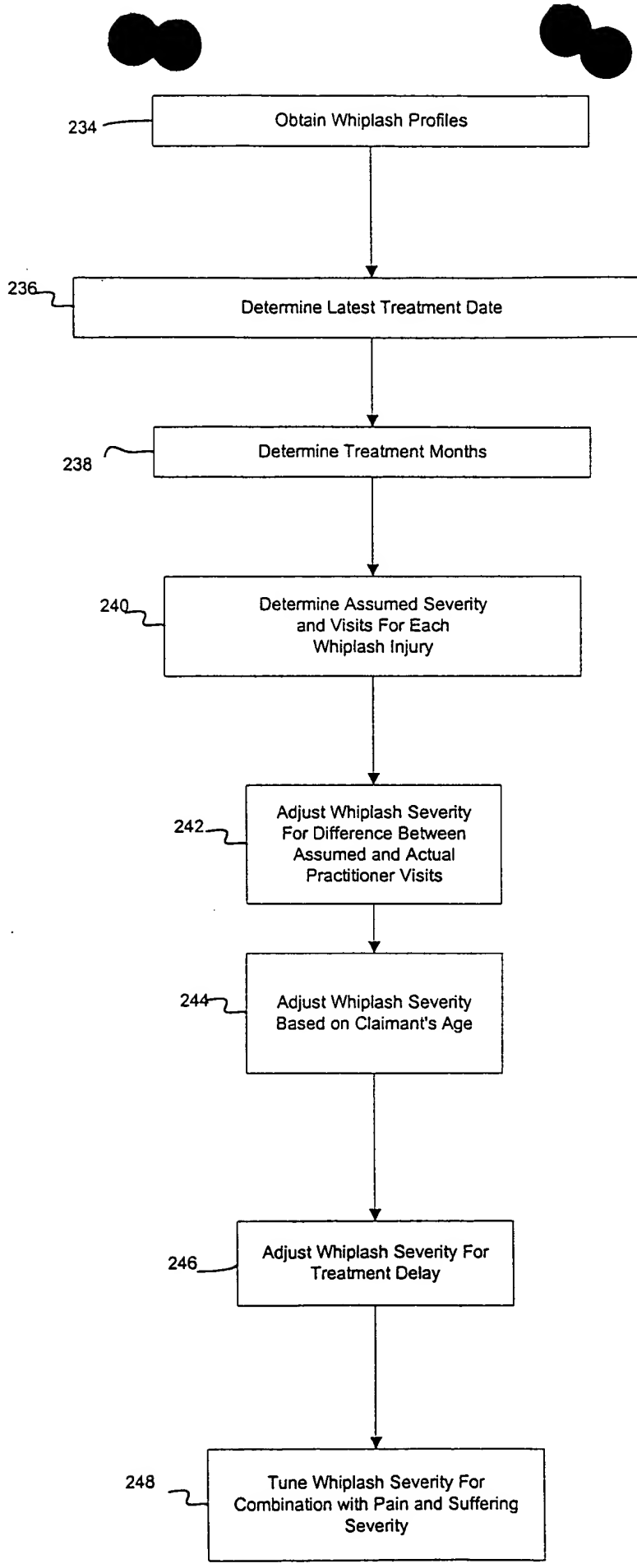

FIG. 19

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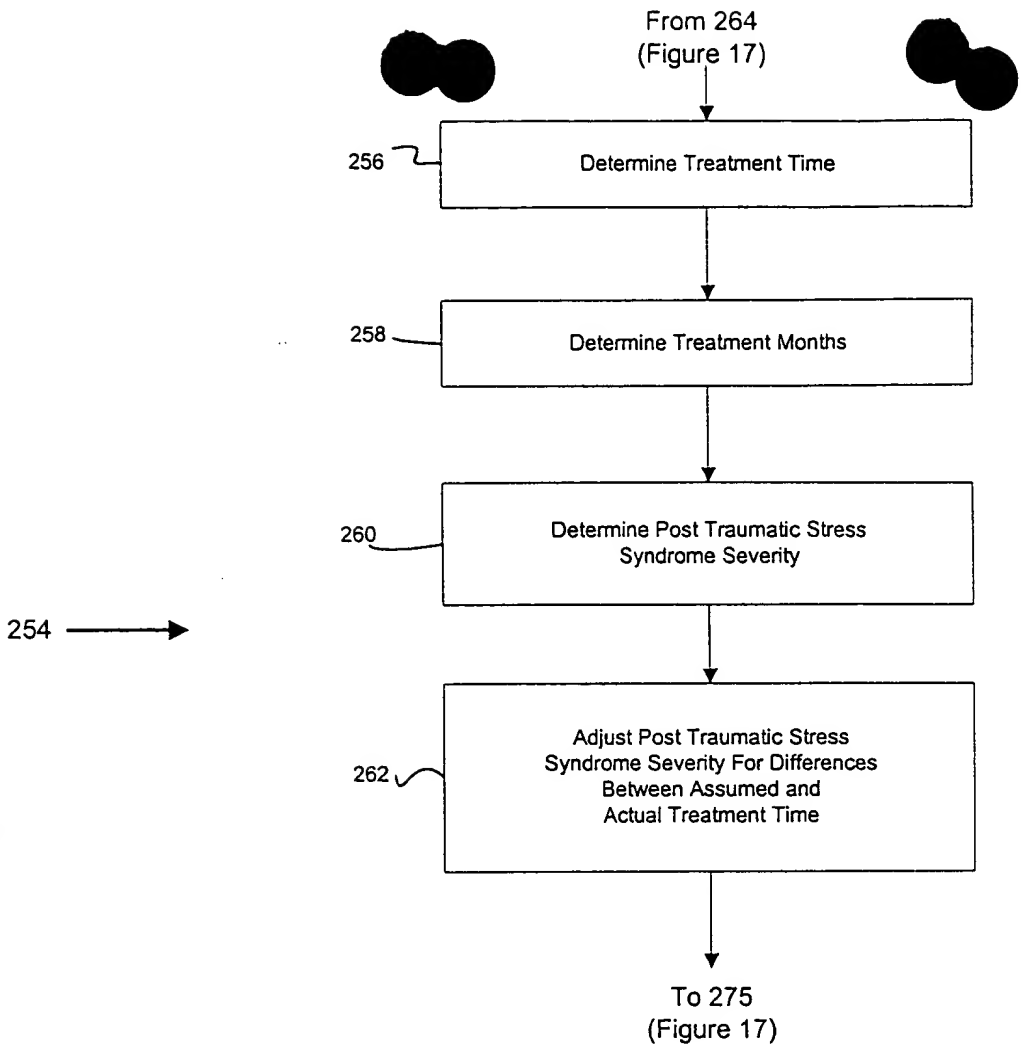

FIG. 20

Doc Code: IDS
Doc Description: Information Disclosure Statement (IDS) Filed

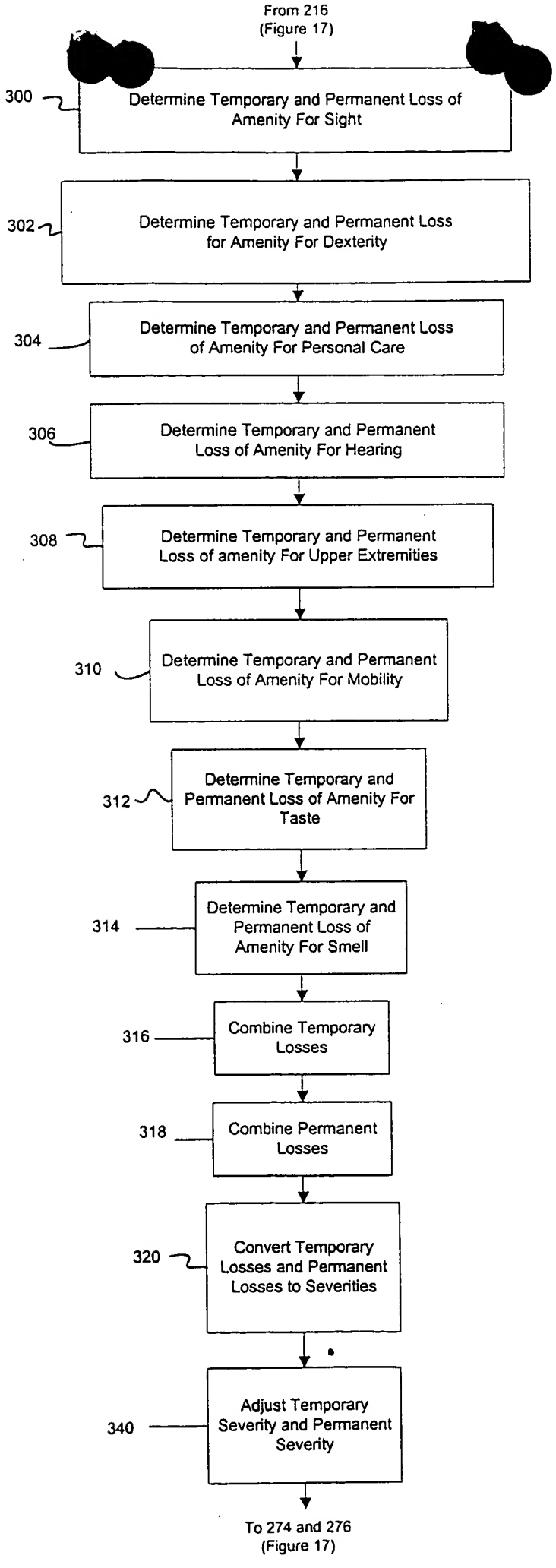

FIG. 21

US 6,950,804 B2